

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/870, 090A

CRF Processing Date: 1/24/2002  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC staff)

**ENTERED**

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐ Edited a format error in the Current Application Data section, specifically:

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included:

☐ Deleted extra, invalid, headings used by an applicant, specifically:

☒ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_.

☐ Inserted mandatory headings, specifically: \_\_\_\_\_

☐ Corrected an obvious error in the response, specifically:

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically:

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_

☐ Other: \_\_\_\_\_



OIEP

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

```

5 <110> APPLICANT: Pfizer, Inc.
6     Katsuhiko Shinjo
7     Hikaru Yabuuchi
10 <120> TITLE OF INVENTION: Human Vanilloid Receptor-Like Proteins
14 <130> FILE REFERENCE: PC9979ADAM
C--> 18 <140> CURRENT APPLICATION NUMBER: US/09/870,090A
C--> 18 <141> CURRENT FILING DATE: 2001-05-30
18 <150> PRIOR APPLICATION NUMBER: US 60/208,156
20 <151> PRIOR FILING DATE: 2000-05-31
24 <160> NUMBER OF SEQ ID NOS: 9
28 <170> SOFTWARE: PatentIn version 3.1
32 <210> SEQ ID NO: 1
34 <211> LENGTH: 2749
36 <212> TYPE: DNA
38 <213> ORGANISM: Human
42 <400> SEQUENCE: 1
43 aaccgcttga ggatttaagc tttgccactt tggctccgga gcaagggcag agggctgagc      60
45 agtgcagacg ggcctggggc aggcattggcg gattccagcg aaggcccccg cgcggggccc      120
47 ggggaggtgg ctgagctccc cggggatgag agtggcacc caggtgggga ggcttttcct      180
49 ctctcctccc tggccaatct gtttgagggg gaggatggct ccctttcgcc ctcaccggct      240
51 gatgccagtc gccctgctgg cccaggcgat gggcgaccaa atctgcgcac gaagttccag      300
53 ggcgccttcc gcaagggggg gcccaacccc atcgatctgc tggagtccac cctatatgag      360
55 tcctcgttgg tgctggggc caagaaagca cccatggact cactgtttga ctacggcacc      420
57 tatcgtcacc actccagtga caacaagagg tggaggaaga agatcataga gaagcagccg      480
59 cagagcccca aagcccctgc ccctcagccg ccccccattc tcaaagtctt caaccggcct      540
61 atcctctttg acatcgtgtc cgggggctcc actgctgacc tggacgggct gctcccattc      600
63 ttgctgaccc acaagaaacg cctaactgat gaggagtctt gagagccatc tacggggaag      660
65 acctgcctgc ccaaggcctt gctgaacctg agcaatggcc gcaacgacac catccctgtg      720
67 ctgctggaca tcgcggagcg caccggcaac atgcgggagt tcattaactc gcccttccgt      780
69 gacatctact atcgagggtca gacagccctg cacatcgcca ttgagcgtcg ctgcaaacac      840
71 tacgtggaac ttctcgtggc ccaggaggct gatgtccacg cccaggccccg tgggcgcttc      900
73 ttccagccca aggatgaggg gggtacttct tactttgggg agctgcccct gtcgctggct      960
75 gcctgcacca accagcccca cattgtcaac tacctaacgg agaaccccca caagaaggcg      1020
77 gacatgcggc gccaggactc gcgaggcaac acagtgtctg atgcgctggg ggccattgct      1080
79 gacaacaccc gtgagaacac caagtttggt accaagatgt acgacctgct gctgctcaag      1140
81 tgtgcccgcg tcttccccga cagcaacctg gaggcgtgct tcaacaacga cggcctctcg      1200
83 cccctcatga ttggtgccaa gacgggcaag attgggatct ttcagcacat catccggcgg      1260
85 gaggtgacgg atgaggacac acggcacctg tcccgcaagt tcaaggactg ggcctatggg      1320
87 ccagtgtatt cctcgttcta tgacctctcc tccctggaca cgtgtgggga agaggcctcc      1380
89 gtgctggaga tcctggtgta caacagcaag attgagaacc gccacgagat gctggctgtg      1440
91 gagcccatca atgaactgct gcgggacaag tggcgcaagt tcggggccgt ctcttcttac      1500
93 atcaacgtgg tctcctacct gtgtgccatg gtcattctca ctctcaccgc ctactaccag      1560
95 ccgctggagg gcacaccgcc gtacccttac cgcaccacgg tggaactacct gcggctggct      1620

```

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

```

97 ggcgaggtca ttacgctctt cactgggggtc ctgttcttct tcaccaacat caaagacttg 1680
99 ttcattgaaga aatgccctgg agtgaattct ctcttcattg atggctcctt ccagctgctc 1740
101 tacttcatct actctgtcct ggtgatcgtc tcagcagccc tctacctggc agggatcgag 1800
103 gcctacctgg ccgtgatggt ctttgccctg gtcctgggct ggatgaatgc cctttacttc 1860
105 acccgtgggc tgaagctgac ggggacctat agcatcatga tccagaagat tctcttcaag 1920
107 gaccttttcc gattcctgct cgtctacttg ctcttcatga tcggctacgc ttcagccctg 1980
109 gtctccctcc tgaacccgtg tgccaacatg aaggtgtgca atgaggacca gaccaactgc 2040
111 acagtgccca cttacccttc gtgccgtgac agcgagacct tcagcacctt cctcctggac 2100
113 ctgtttaagc tgaccattgg catgggcgac ctggagatgc tgagcagcac caagtacccc 2160
115 gtggtcttca tcatcctgct ggtgacctac atcatcctca cctttgtgct gtcctcaac 2220
117 atgctcattg ccctcatggg cgagacagtg ggccaggtct ccaaggagag caagcacatc 2280
119 tggaagctgc agtgggccac caccatcctg gacattgagc gtccttccc cgtattcctg 2340
121 aggaaggcct tccgctctgg ggagatggtc accgtgggca agagctcgga cggcactcct 2400
123 gaccgcaggt ggtgcttcag ggtggatgag gtgaactggt ctactggaa ccagaacttg 2460
125 ggcatcatca acgaggaccc gggcaagaat gagacctacc agtattatgg cttctcgcat 2520
127 accgtgggcc gcctccgcag ggatcgctgg tcctcggtgg taccgccgct ggtggaactg 2580
129 aacaagaact cgaacccgga cgaggtggtg gtgcctctgg acagcatggg gaacccccgc 2640
131 tgcgatggcc accagcaggg ttacccccgc aagtggagga ctgatgacgc cccgctctag 2700
133 ggactgcagc ccagccccag cttctctgcc cactcatttc tagtccagc 2749

```

136 &lt;210&gt; SEQ ID NO: 2

138 &lt;211&gt; LENGTH: 870

140 &lt;212&gt; TYPE: PRT

142 &lt;213&gt; ORGANISM: Human

146 &lt;400&gt; SEQUENCE: 2

```

148 Met Ala Asp Ser Ser Glu Gly Pro Arg Ala Gly Pro Gly Glu Val Ala
149 1 5 10 15
152 Glu Leu Pro Gly Asp Glu Ser Gly Thr Pro Gly Gly Glu Ala Phe Pro
153 20 25 30
156 Leu Ser Ser Leu Ala Asn Leu Phe Glu Gly Glu Asp Gly Ser Leu Ser
157 35 40 45
160 Pro Ser Pro Ala Asp Ala Ser Arg Pro Ala Gly Pro Gly Asp Gly Arg
161 50 55 60
164 Pro Asn Leu Arg Met Lys Phe Gln Gly Ala Phe Arg Lys Gly Val Pro
165 65 70 75 80
168 Asn Pro Ile Asp Leu Leu Glu Ser Thr Leu Tyr Glu Ser Ser Val Val
169 85 90 95
172 Pro Gly Pro Lys Lys Ala Pro Met Asp Ser Leu Phe Asp Tyr Gly Thr
173 100 105 110
176 Tyr Arg His His Ser Ser Asp Asn Lys Arg Trp Arg Lys Lys Ile Ile
177 115 120 125
180 Glu Lys Gln Pro Gln Ser Pro Lys Ala Pro Ala Pro Gln Pro Pro Pro
181 130 135 140
184 Ile Leu Lys Val Phe Asn Arg Pro Ile Leu Phe Asp Ile Val Ser Arg
185 145 150 155 160
188 Gly Ser Thr Ala Asp Leu Asp Gly Leu Leu Pro Phe Leu Leu Thr His
189 165 170 175
192 Lys Lys Arg Leu Thr Asp Glu Glu Phe Arg Glu Pro Ser Thr Gly Lys
193 180 185 190
196 Thr Cys Leu Pro Lys Ala Leu Leu Asn Leu Ser Asn Gly Arg Asn Asp

```

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

```

197          195          200          205
200 Thr Ile Pro Val Leu Leu Asp Ile Ala Glu Arg Thr Gly Asn Met Arg
201          210          215          220
204 Glu Phe Ile Asn Ser Pro Phe Arg Asp Ile Tyr Tyr Arg Gly Gln Thr
205 225          230          235          240
208 Ala Leu His Ile Ala Ile Glu Arg Arg Cys Lys His Tyr Val Glu Leu
209          245          250          255
212 Leu Val Ala Gln Gly Ala Asp Val His Ala Gln Ala Arg Gly Arg Phe
213          260          265          270
216 Phe Gln Pro Lys Asp Glu Gly Gly Tyr Phe Tyr Phe Gly Glu Leu Pro
217          275          280          285
220 Leu Ser Leu Ala Ala Cys Thr Asn Gln Pro His Ile Val Asn Tyr Leu
221          290          295          300
224 Thr Glu Asn Pro His Lys Lys Ala Asp Met Arg Arg Gln Asp Ser Arg
225 305          310          315          320
228 Gly Asn Thr Val Leu His Ala Leu Val Ala Ile Ala Asp Asn Thr Arg
229          325          330          335
232 Glu Asn Thr Lys Phe Val Thr Lys Met Tyr Asp Leu Leu Leu Leu Lys
233          340          345          350
236 Cys Ala Arg Leu Phe Pro Asp Ser Asn Leu Glu Ala Val Leu Asn Asn
237          355          360          365
240 Asp Gly Leu Ser Pro Leu Met Met Ala Ala Lys Thr Gly Lys Ile Gly
241          370          375          380
244 Ile Phe Gln His Ile Ile Arg Arg Glu Val Thr Asp Glu Asp Thr Arg
245 385          390          395          400
248 His Leu Ser Arg Lys Phe Lys Asp Trp Ala Tyr Gly Pro Val Tyr Ser
249          405          410          415
252 Ser Leu Tyr Asp Leu Ser Ser Leu Asp Thr Cys Gly Glu Glu Ala Ser
253          420          425          430
256 Val Leu Glu Ile Leu Val Tyr Asn Ser Lys Ile Glu Asn Arg His Glu
257          435          440          445
260 Met Leu Ala Val Glu Pro Ile Asn Glu Leu Leu Arg Asp Lys Trp Arg
261          450          455          460
264 Lys Phe Gly Ala Val Ser Phe Tyr Ile Asn Val Val Ser Tyr Leu Cys
265 465          470          475          480
268 Ala Met Val Ile Phe Thr Leu Thr Ala Tyr Tyr Gln Pro Leu Glu Gly
269          485          490          495
272 Thr Pro Pro Tyr Pro Tyr Arg Thr Thr Val Asp Tyr Leu Arg Leu Ala
273          500          505          510
276 Gly Glu Val Ile Thr Leu Phe Thr Gly Val Leu Phe Phe Phe Thr Asn
277          515          520          525
280 Ile Lys Asp Leu Phe Met Lys Lys Cys Pro Gly Val Asn Ser Leu Phe
281          530          535          540
284 Ile Asp Gly Ser Phe Gln Leu Leu Tyr Phe Ile Tyr Ser Val Leu Val
285 545          550          555          560
288 Ile Val Ser Ala Ala Leu Tyr Leu Ala Gly Ile Glu Ala Tyr Leu Ala
289          565          570          575
292 Val Met Val Phe Ala Leu Val Leu Gly Trp Met Asn Ala Leu Tyr Phe
293          580          585          590

```

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

```

296 Thr Arg Gly Leu Lys Leu Thr Gly Thr Tyr Ser Ile Met Ile Gln Lys
297          595          600          605
300 Ile Leu Phe Lys Asp Leu Phe Arg Phe Leu Leu Val Tyr Leu Leu Phe
301          610          615          620
304 Met Ile Gly Tyr Ala Ser Ala Leu Val Ser Leu Leu Asn Pro Cys Ala
305 625          630          635          640
308 Asn Met Lys Val Cys Asn Glu Asp Gln Thr Asn Cys Thr Val Pro Thr
309          645          650          655
312 Tyr Pro Ser Cys Arg Asp Ser Glu Thr Phe Ser Thr Phe Leu Leu Asp
313          660          665          670
316 Leu Phe Lys Leu Thr Ile Gly Met Gly Asp Leu Glu Met Leu Ser Ser
317          675          680          685
320 Thr Lys Tyr Pro Val Val Phe Ile Ile Leu Leu Val Thr Tyr Ile Ile
321          690          695          700
324 Leu Thr Phe Val Leu Leu Leu Asn Met Leu Ile Ala Leu Met Gly Glu
325 705          710          715          720
328 Thr Val Gly Gln Val Ser Lys Glu Ser Lys His Ile Trp Lys Leu Gln
329          725          730          735
332 Trp Ala Thr Thr Ile Leu Asp Ile Glu Arg Ser Phe Pro Val Phe Leu
333          740          745          750
336 Arg Lys Ala Phe Arg Ser Gly Glu Met Val Thr Val Gly Lys Ser Ser
337          755          760          765
340 Asp Gly Thr Pro Asp Arg Arg Trp Cys Phe Arg Val Asp Glu Val Asn
341          770          775          780
344 Trp Ser His Trp Asn Gln Asn Leu Gly Ile Ile Asn Glu Asp Pro Gly
345 785          790          795          800
348 Lys Asn Glu Thr Tyr Gln Tyr Tyr Gly Phe Ser His Thr Val Gly Arg
349          805          810          815
352 Leu Arg Arg Asp Arg Trp Ser Ser Val Val Pro Arg Val Val Glu Leu
353          820          825          830
356 Asn Lys Asn Ser Asn Pro Asp Glu Val Val Val Pro Leu Asp Ser Met
357          835          840          845
360 Gly Asn Pro Arg Cys Asp Gly His Gln Gln Gly Tyr Pro Arg Lys Trp
361          850          855          860
364 Arg Thr Asp Asp Ala Pro
365 865          870
368 <210> SEQ ID NO: 3
370 <211> LENGTH: 1900
372 <212> TYPE: DNA
374 <213> ORGANISM: Human
378 <400> SEQUENCE: 3
379 gcggccgctg aattctagga catcgcgag cgcaccggca acatgcggga gttcattaac 60
381 tcgcccttcc gtgacatcta ctatcgaggg gagctgcccc tgtcgctggc tgctgcacc 120
383 aaccagcccc acattgtcaa ctacctgacg gagaaccccc acaagaaggc ggacatgcgg 180
385 cgccaaggact cgcgaggcaa cacagtgtcg catgcgctgg tggccattgc tgacaacacc 240
387 cgtgagaaca ccaagtttgt taccaagatg tacgacctgc tgctgctcaa gtgtgccccg 300
389 ctcttccccg acagcaacct ggaggccgtg ctcaacaacg acggcctctc gccctcatg 360
391 atggctgcc aagacgggcaa gattgggac tttcagcaca tcatccggcg ggaggtgacg 420
393 gatgaggaca cacggcacct gtcccgcgaag ttcaaggact gggcctatgg gccagtgtat 480

```

## RAW SEQUENCE LISTING

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:00

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

```

395 tcctcgcttt atgacctctc ctccctggac acgtgtgggg aagaggcctc cgtgctggag 540
397 atcctgggtgt acaacagcaa gattgagaac cgccacgaga tgctggctgt ggagcccatc 600
399 aatgaactgc tgcgggacaa gtggcgcaag ttcgggggccg tctccttcta catcaacgtg 660
401 gtctcctacc tgtgtgccat ggtcatcttc actctcaccg cctactacca gccgctggag 720
403 ggcacaccgc cgtaccctta ccgcaccacg gtggactacc tgcggctggc tggcgaggtc 780
405 attacgctct tcactggggt cctgttcttc ttcaccaaca tcaaagactt gttcatgaag 840
407 aaatgccctg gagtgaattc tctcttcatt gatggctcct tccagctgct ctacttcac 900
409 tactctgtcc tggatgctgt ctcagcagcc ctctacctgg cagggatcga ggcctacctg 960
411 gccgtgatga tctttgccct ggtcctgggc tggatgaatg ccctttactt caccctggg 1020
413 ctgaagctga cggggaccta tagcatcatg atccagaaga ttctcttcaa ggaccttttc 1080
415 cgattcctgc tctctactt gctcttcatt atcggctacg cttcagccct ggtctccctc 1140
417 ctgaacccgt gtgccaacat gaaggtgtgc aatgaggacc agaccaactg cacagtgcc 1200
419 acttaccctt cgtgccgtga cagcgagacc ttcagcacct tcctcctgga cctgtttaag 1260
421 ctgaccatcg gcatgggcca cctggagatg ctgagcagca ccaagtaccc cgtggtcttc 1320
423 atcatcctgc tggtagccta catcatcttc acctttgtgc tgctcctcaa catgctcatt 1380
425 gccctcatgg gcgagacagt gggccaggtc tccaaggaga gcaagcacat ctggaagctg 1440
427 cagtgggcca ccaccatcct ggacattgag cgctccttcc ccgtattcct gaggaaggcc 1500
429 ttccgctctg gggagatggt caccgtgggc aagagctcgg acggcactcc tgaccgcagg 1560
431 tgggtgcttca gggtagatga ggtgaactgg tctcactgga accagaactt gggcatcatc 1620
433 aacgaggacc cgggcaagaa tgagacctac cagtattatg gcttctcgca taccgtgggc 1680
435 cgctccgca gggatcgctg gtcctcggtg gtaccccgcg tggtaggaact gaacaagaac 1740
437 tcgaacccgg acgaggtggt ggtgcctctg gacagcatgg ggaacccccg ctgcatggc 1800
439 caccagcagg gttacccccg caagtggagg actgatgacg ccccgctcta gggactgcag 1860
441 cccagcccca gcttctctgc ccactcattt ctagtccagc 1900

```

444 &lt;210&gt; SEQ ID NO: 4

446 &lt;211&gt; LENGTH: 602

448 &lt;212&gt; TYPE: PRT

450 &lt;213&gt; ORGANISM: Human

454 &lt;400&gt; SEQUENCE: 4

```

456 Met Arg Glu Phe Ile Asn Ser Pro Phe Arg Asp Ile Tyr Tyr Arg Gly
457 1 5 10 15
460 Glu Leu Pro Leu Ser Leu Ala Ala Cys Thr Asn Gln Pro His Ile Val
461 20 25 30
464 Asn Tyr Leu Thr Glu Asn Pro His Lys Lys Ala Asp Met Arg Arg Gln
465 35 40 45
468 Asp Ser Arg Gly Asn Thr Val Leu His Ala Leu Val Ala Ile Ala Asp
469 50 55 60
472 Asn Thr Arg Glu Asn Thr Lys Phe Val Thr Lys Met Tyr Asp Leu Leu
473 65 70 75 80
476 Leu Leu Lys Cys Ala Arg Leu Phe Pro Asp Ser Asn Leu Glu Ala Val
477 85 90 95
480 Leu Asn Asn Asp Gly Leu Ser Pro Leu Met Met Ala Ala Lys Thr Gly
481 100 105 110
484 Lys Ile Gly Ile Phe Gln His Ile Arg Arg Glu Val Thr Asp Glu
485 115 120 125
488 Asp Thr Arg His Leu Ser Arg Lys Phe Lys Asp Trp Ala Tyr Gly Pro
489 130 135 140
492 Val Tyr Ser Ser Leu Tyr Asp Leu Ser Ser Leu Asp Thr Cys Gly Glu
493 145 150 155 160

```

**VERIFICATION SUMMARY**

DATE: 01/24/2002

PATENT APPLICATION: US/09/870,090A

TIME: 07:45:01

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\01242002\I870090A.raw

L:18 M:270 C: Current Application Number differs, Replaced Current Application No

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date